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APPLICATION NO.	PW DIG TO THE			
	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,273	12/12/2003	Jean Cotteret	LORE:007US	3600
7590 11/17/2004			EXAMINER	
Mark B. Wilson				
Fulbright & Jaworski L.L.P.			ELHILO, EISA B	
Suite 2400 600 Congress A	Vanua		ART UNIT	PAPER NUMBER
Austin, TX 78			1751	
			DATE MAILED: 11/17/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	(<i>x</i>			
Office Action Summary		10/735,273	COTTERET ET AL				
		Examiner	Art Unit				
		Eisa B Elhilo	1751				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - Exter after - If the - If NO - Failu Any r	MAILING DATE OF THIS COMMUNICAT ensions of time may be available under the provisions of 37 (c SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the led patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, n tion. s, a reply within the statutory minimum y period will apply and will expire SIX (6 y statute, cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this con	nmunication.			
Status							
1)	Responsive to communication(s) filed on	12 December 2003.					
		This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-48 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-8,10,11 and 22-48 is/are rejected. 7) Claim(s) 9 and 12-21 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicati	ion Papers						
10) 🗌 .	The specification is objected to by the Exa The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the o	☐ accepted or b)☐ objected to the drawing(s) be held in abcorrection is required if the drawing	peyance. See 37 CFR 1.85(a). wing(s) is objected to. See 37 CFF	· ,			
11)[The oath or declaration is objected to by t	he Examiner. Note the atta	ched Office Action or form PTC)-152.			
Priority u	under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment	i(s)						
	e of References Cited (PTO-892)	4) Interv	iew Summary (PTO-413)				
3) 🛛 Inform	e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date 6/24/2004.	SB/08) 5) Notice	No(s)/Mail Date e of Informal Patent Application (PTO-1	52)			

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Claims 1-48 are pending in this application.

DETAILED ACTION

Examiner position

The examiner makes of record that instant claims 34, 35, 40 and 43 recite a broad range followed by a series of narrow ranges. For examination purposes, the examiner asserts that the narrow ranges recited in the instant claims 34, 35, 40 and 43 merely exemplary ranges, and thus, the prior art will be applied against the broadest range recited in the instant claims 34, 35, 40 and 43. Further, the examiner suggests that applicant should delete the narrow ranges from the instant claims 34, 35, 40 and 43 and add new dependent claims that recite the narrow ranges recited in the instant claims 34, 35, 40 and 43.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8, 10-11, 22-30 and 34-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laurent et al. (US 2002/0046431 A1) in view of Lim et al. (US 6,461,391 B1).

Laurent et al. (US' 431 A1) teaches a hair dyeing composition comprising oxidation bases such as para-phenylenediamine compounds represented by a formula (1), in which R1 and R2 form together with the nitrogen to which they attached a 5- or 6-membered nitrogen-containing heterocyclic ring (see page. 10, formula (1) and page 12, paragraph, 0270) and wherein the composition further comprises organic diacid compounds such as tartaric acid as

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claimed in claims 1 and 27-30 (see page 22, paragraph, 0476), additional cationic polymers as claimed in claim 36 (see page 7, paragraph, 0192), thickeners and surfactants as claimed in claims 37-38 (see page 21, paragraph, 0466), other oxidation bases such as para-aminophenol as claimed in claim 39 (see page 12, formula (III)), wherein the oxidation bases are presented in the amount of 0.0005% to 12% which is within the claimed range as claimed in claim 40 (see page 13, paragraph, 0312), couplers such as 1,3-dihydroxybenzene (meta-diphenol) in the amount of 0.005 to 5% as claimed in claims 41-43 (see page 13, paragraph, 0314), direct dyes as claimed in claim 44 (see page 13, paragraph, 0317), hydroxylated solvents such as ethanol as claimed in claim 45 (see page 10, paragraph, 0254), oxidizing agents such as hydrogen peroxide as claimed in claim 46 (see page 21, paragraph, 0469). Laurent et al. also teaches a similar process for dyeing hair comprising applying to the hair the dyeing composition as described above and wherein the process is similar to those as claimed in claim 47 (see page 22, paragraph, 0477). Laurent et al. further, teaches multi-compartment devices for dyeing hair, which are similar to those, claimed in claim 48 (see page 27, claim 66).

The claims differ from the reference by reciting cationic tertiary para-phenylenediaine compounds as oxidation bases.

Lim et al. (US' 391 B1) in analogous art of hair dyeing formulation, teaches a composition comprising oxidation base of cationic tertiary para-phenylenediamine having a formula (1), which is similar to the claimed formula (1), when in the reference formula (1), R, R1 and R2 are alkyl radicals, R4 is hydrogen atom or an alkyl radical and R5 is a hydrogen atom (see col. 2, lines 44-50) and when in the claimed formula (1), R2 represents the onion radical Z of the claimed formula (II), R3 is a hydrogen atom, n is 1 or 0 and R1 is an alkyl radical. The

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cationic tertiary para-phenylenediamine is represented in the amount of 0.01 to about 5.0%, which is within the claimed range as claimed in claims 34-35 (see col. 3, lines 43-46). Lim et al. further, teaches the compounds 1-(4-aminophenyl)-N,N-dimethyl-N-pentylpyrolidin-3-ammoinum iodide and 1-(4-aminophenyl)-N-(2-hydroxyethyl)-N,N-dimethylpyrrolidin-3-ammonium iodide which are structurally similar to the claimed compounds as claimed in claims 22-26 (see col. 19, Example 22 (compound 7) and col. 26, Example 29 (compound 14).

Therefore, in view of the teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to formulate such a dyeing composition by substituting the heterocyclic para-phenylenediamine oxidation base of Laurent et al. by the cationic tertiary para-phenylenediaines as taught by Lim et al., with a reasonable expectation of success. Such a modification would be obvious because Laurent et al. as a primary reference discloses the genus of para-phenylenediamine compounds as oxidation bases. Lim et al. as a secondary reference clearly teaches that the quaternized pyrrolidine compounds are suitable primary intermediates for hair coloring compositions for providing good oxidative coloration of hair such as light fastness, fastness to shampooing, fastness to permanent wave treatment and suitable for providing a wide variety of different color shades with various primary intermediate and coupler compounds (see col. 2, lines 13-20) and, thus, a person of the ordinary skill in the art would be motivated to substitute para-phenylenediamine oxidation bases of Laurent et al. by the cationic tertiary para-phenylenediaines of Lim et al., for providing good oxidation coloring of hair and would expect such a composition to have similar properties to those claimed, absent unexpected results.

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Claims 31-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Laurent et al. (US 2002/0046431 A1) and Lim et al. (US 6,461,391 B1) and further, in view of Zofchak et al. (US 6,315,991 B1).

The disclosures of Laurent et al. (US' 431 A1) and Lim et al. (US' 391 B1), as described above do not teach or disclose the specific species of diacid compounds as claimed.

However, Laurent et al. (US' 431 A1) teaches a dyeing composition comprising diacid compound tartaric acid (see page 22, paragraph, 0476).

Zofchak et al. (US' 991 B1) in analogous art of cosmetic formulation, teaches a composition comprising diacid compounds dilinoleic and malic acids as claimed in claims 31-33 (see col. 10, lines 35-50).

Therefore, in view of the teaching of the secondary reference, one having ordinary skill in the art at the time the invention was made would be motivated to formulate such a dyeing composition by substituting the compound of diacid tartaric acid in the composition of Laurent et al. by the diacid compounds linolenic and malic acids as taught Zofchak et al., with a reasonable expectation of success. Such a modification would be obvious because Laurent et al. as a primary reference suggests the use of diacid compounds in the dyeing composition. Zofchak et al. as a secondary reference clearly teaches the equivalence between the diacid compounds dilinoleic acid, citric, malic acid and tartaric acid (see col. 10, lines 53-65) and, thus, a person of the ordinary skill in the art would be motivated to substitute the compound of diacid tartaric acid. in the composition of Laurent et al., by dilinoleic acid or malic acid as equivalent compounds, and, would expect such a composition to have similar properties to those claimed, absent unexpected results.

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Allowable Subject Matter

Claims 9 and 12-21 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of record do not teach or disclose cationic paraphenylenedimanie compounds of the claimed formula (II), in which x is equal 1. the prior art of record also do not teach or disclose para-phenylenedimanie compounds of the claimed formulae (III) and (IV).

Conclusion

The references listed on from 1449 have been reviewed by the examiner and are considered to be cumulative to or less material than the prior art references relied upon in the rejection above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eisa B Elhilo whose telephone number is (571) 272-1315. The examiner can normally be reached on M - F (8:00 -5:30) with alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

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Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eisa Elhilo

Patent Examiner

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November 10, 2004